

Solving the Food Insecurity, Education and Economic Paradigm in Africa and the Arctic: A Partner in Wildlife Sustainability

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Africa-America Country Foods



Nunavut,
Canada



Namibia,
Africa

Background

- **Healthy Bio systems**
 - Management of Animal Resources –synchronized with Food Resources
- **Ownership and Tangible Resources**
 - Incentive
 - Proper Management – Sustainable Management
- **Myriad of Benefits**



Food Insecurity

1. Measure of the inability to ensure access to essential nutrition

2. 1996 – World Food Summit defined Food Security:

“when all people , at all times, have physical and economic access to sufficient, safe, and nutritious food that meets their dietary needs and food preferences for an active and healthy life”



Africa/Namibia

Causes

1. Poverty and Food Insecurity
2. Conflict
3. Erratic Weather, Drought, and Flood
4. Global Rise in Food Prices
5. Lack of refrigeration

Effects

1. Health and Development Consequences – Malnutrition
 1. Children and women
 2. Growth
 3. Deficiencies – iron, protein
2. Education
3. Rural and Urban



Africa Food Insecurity and Poverty

- Nigeria – average protein consumption is 10 g/day. Required is 35 g
- Economics
- Africa Feeding Africa
- San speaking population income 23 times less than German speaking and women half of the male Head of Household
- Nutritional Deficiency
- Education
- Resources

Wildlife Resources

1. Communal and Private Lands
 - a) Game (1.8 Mil) and Cattle (2.4 Mil)
2. Community conservation.
3. Drought
4. Sustainability
 1. Tangible
 2. Economic and Ecological
 1. Balance with Food
 2. Bottlenecks
5. Agriculture is link between food resources and nutrition
6. Education
 1. Important in nutritional status
 2. Women social status



Springbok



Eland & Hartebeest



Wildebeest & Kudu



Cattle - Tropical Breeds - Grass fed



Rangeland - Grassland



Northern Canada - Nunavut

Food Insecurity

1. 41% of children between 3-5 in 2010 lived in homes with no food for entire day (McGill Univ).
2. 70% of Inuit Preschoolers in food insecure homes (CMAJ 2010:182)
 1. 64.3% did not eat cause no money for food.
3. 2012 - 22% of Inuit went to bed hungry
4. Relationship between growth and nutrition
 1. Obesity linked to food insecurity (Gundersen et al 2008)
5. Unemployment



Country Foods - Nunavut

Traditional Diet

- Vital nourishment
- Emotional, spiritual, and cultural well-being.



Criteria of Food Security

- Availability
 - Sufficient, consistent quantity
- Accessibility
 - Sufficient resources
- Quality
 - nutritional and cultural value)

Country Food Resources



Arctic Char



Sea Urchins, Clams
Scallops, Sea Cucumbers



Turbot

Winter Clams & Clamming



Sea Mammals



Clamming in Winter & Carving



Value-adding



- Minimal use of modern value-added techniques
 - Extrusion, canning, smoking
- Shelf stable and nutritious
- Why? – food security, social welfare and education, & economic and ecological sustainability

Societal Need



- Create Jobs
- Training
- Education
- Better Living Standard
- Empower women –
 - "Educate a woman and you educate a nation"
- R&D for market products
- Create Economy from Exports
- Value add surplus fish

Benefits

- Long-term continuity to train and mentor skills and R&D
- Marketing Hub for training and export of Country Foods.
- Brand Recognition for quality
- Fair trade, green healthy products – return education, training, fair wages to workers
- Economic and ecological sustainability
- International involvement and recognition



What Stage Are Developments?

Namibia

- Slaughtering and sale of fresh product
- Value-added equipment being staged
- Worker and Management Training in 2015
- Value-added processing to begin in 2015

Nunavut

- New plant for fish, shellfish, sea mammals staged for autumn 2014
- Training in 2015
- Plant and equipment configured, commissioned, and operational in 2015
- Other communities in Nunavut, Nunavik, and Labrador watching and staged to follow

Don't Fight With Natural Resources – Manage Them and All Will Win Sustainably

